

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	89822	piezo\$1electric\$1 or piezo adj electric	US-PGPUB; USPAT	OR	ON	2005/12/20 09:50
S2	87573	driv\$3 adj (device or member)	US-PGPUB; USPAT	OR	ON	2005/12/19 16:22
S3	291168	(compact adj disc or CD or digital adj video adj disc or DVD)	US-PGPUB; USPAT	OR	ON	2005/12/19 14:26
S4	3446	S1 and S2	US-PGPUB; USPAT	OR	ON	2005/12/19 14:27
S5	324	S1 and S2 and S3	US-PGPUB; USPAT	OR	ON	2005/12/19 14:53
S6	299	(multiple or two or three or four) near3 (driv\$3 near3 member) and (piezo\$1electric\$1 or piezo adj electric)	US-PGPUB; USPAT	OR	ON	2005/12/19 14:59
S7	11	S6 and S2 and S3	US-PGPUB; USPAT	OR	ON	2005/12/19 14:56
S8	33	S6 and S3	US-PGPUB; USPAT	OR	ON	2005/12/19 14:59
S9	22	S8 not S7	US-PGPUB; USPAT	OR	ON	2005/12/19 14:59
S10	4	("5448127"   "5632074"   "6724128"   "6765335").PN. OR ("6841899").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/19 16:00
S11	114225	three near3 (driv\$3 member)	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/19 16:02
S12	2897	S11 and S1	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/19 16:01
S13	33	S11 and S1 and S2 and S3	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/19 16:01
S14	1342	three near3 (driv\$3 near3 member)	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/19 16:02
S15	48	S14 and S1	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/19 16:03

## EAST Search History

S16	41	("2486482"   "2833942"   "3835338"   "4195243"   "4613782"   "4672256"   "4947077"   "4968914"   "5013958"   "5134335"   "5225941"   "5237238"   "5252884"   "5260622"   "5453653"   "5589723"   "5640063").PN. OR ("5786654").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/19 16:08
S17	12	("5225941"   "5587846"   "5589723"   "5589732"   "5786654"   "5821667"   "5869918"   "5890391"   "5907212"   "5912525"   "5969464").PN. OR ("6246151").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/19 16:17
S18	103869	driv\$3 adj (device or member or apparatus)	US-PGPUB; USPAT	OR	ON	2005/12/19 16:22
S19	41	S11 and S1 and S18 and S3	US-PGPUB; USPAT	OR	ON	2005/12/19 16:23
S20	8	S19 not S13	US-PGPUB; USPAT	OR	ON	2005/12/19 16:22
S21	502	S11 and S1 and S18	US-PGPUB; USPAT	OR	ON	2005/12/19 16:24
S22	1	"5633763".pn.	US-PGPUB; USPAT	OR	ON	2005/12/20 08:58
S23	1	"6232697".pn.	US-PGPUB; USPAT	OR	ON	2005/12/20 08:58
S24	7	("5130599"   "5134335"   "5225941"   "5589723"   "5726520").PN. OR ("6232697").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/20 09:13
S25	1	"6215605".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/20 09:23
S26	1	"5786654".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/20 09:23
S27	90455	piezo\$1electric\$1 or piezo adj electric or vibration adj wave	US-PGPUB; USPAT	OR	ON	2005/12/20 09:50
S28	87636	driv\$3 adj (device or member)	US-PGPUB; USPAT	OR	ON	2005/12/20 09:51
S29	291454	(compact adj disc or CD or digital adj video adj disc or DVD)	US-PGPUB; USPAT	OR	ON	2005/12/20 09:51
S30	326	S27 and S28 and S29	US-PGPUB; USPAT	OR	ON	2005/12/20 09:51
S31	1343	three near3 (driv\$3 near3 member)	US-PGPUB; USPAT; USOCR	OR	ON	2005/12/20 09:51

## EAST Search History

S32	2	S27 and S28 and S29 and S31	US-PGPUB; USPAT	OR	ON	2005/12/20 09:52
S33	103945	driv\$3 adj (device or member or apparatus)	US-PGPUB; USPAT	OR	ON	2005/12/20 09:52
S34	326	S27 and S28 and S29 and S33	US-PGPUB; USPAT	OR	ON	2005/12/20 09:53
S35	3472	S27 and S28	US-PGPUB; USPAT	OR	ON	2005/12/20 09:53
S36	1766	S27 and S28 and (optical or lens)	US-PGPUB; USPAT	OR	ON	2005/12/20 09:54
S37	22	S27 and S28 and (optical or lens) and S31	US-PGPUB; USPAT	OR	ON	2005/12/20 09:54
S38	146	(driving near3 (device or apparatus)) same (driv\$3 near3 member) same (piezo\$1electric\$1 or piezo adj electric)	US-PGPUB; USPAT	OR	ON	2005/12/21 12:52
S39	1130	(driving near3 (device or apparatus)) and (driv\$3 near3 member) and (piezo\$1electric\$1 or piezo adj electric)	US-PGPUB; USPAT	OR	ON	2005/12/21 12:52
S40	494	(driving near3 (device or apparatus)) and (driv\$3 near3 member) same (piezo\$1electric\$1 or piezo adj electric)	US-PGPUB; USPAT	OR	ON	2005/12/21 12:53
S41	396	(driving near3 (device or apparatus)) same (driv\$3 near3 member) and (piezo\$1electric\$1 or piezo adj electric)	US-PGPUB; USPAT	OR	ON	2005/12/21 13:14
S42	194	310/323.02.ccls.	US-PGPUB; USPAT	OR	ON	2005/12/21 13:22
S43	2	((("6,232,697") or ("5,225,941"))).PN.	US-PGPUB; USPAT	OR	OFF	2005/12/27 09:47
S44	1959	310/328.ccls.	US-PGPUB; USPAT	OR	ON	2005/12/27 09:47
S45	93666	piezo\$1electric\$1 or piezo adj electric	US-PGPUB; USPAT	OR	ON	2006/04/12 14:48
S46	90445	driv\$3 adj (device or member)	US-PGPUB; USPAT	OR	ON	2006/04/12 14:48
S47	311285	(compact adj disc or CD or digital adj video adj disc or DVD)	US-PGPUB; USPAT	OR	ON	2006/04/12 14:48
S48	3601	S45 and S46	US-PGPUB; USPAT	OR	ON	2006/04/12 14:48
S49	354	S45 and S46 and S47	US-PGPUB; USPAT	OR	ON	2006/04/12 14:48

## EAST Search History

S50	312	(multiple or two or three or four) near3 (driv\$3 near3 member) and (piezo\$1electric\$1 or piezo adj electric)	US-PGPUB; USPAT	OR	ON	2006/04/12 14:52
S51	11	S50 and S46 and S47	US-PGPUB; USPAT	OR	ON	2006/04/12 14:48
S52	36	S50 and S47	US-PGPUB; USPAT	OR	ON	2006/04/12 14:51
S53	25	S52 not S51	US-PGPUB; USPAT	OR	ON	2006/04/12 14:48
S54	4	("5448127"   "5632074"   "6724128"   "6765335").PN. OR ("6841899").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/12 14:48
S55	116707	three near3 (driv\$3 member)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/12 14:48
S56	3026	S55 and S45	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/12 14:48
S57	39	S55 and S45 and S46 and S47	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/12 14:48
S58	1366	three near3 (driv\$3 near3 member)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/12 14:48
S59	49	S58 and S45	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/12 14:48
S60	41	("2486482"   "2833942"   "3835338"   "4195243"   "4613782"   "4672256"   "4947077"   "4968914"   "5013958"   "5134335"   "5225941"   "5237238"   "5252884"   "5260622"   "5453653"   "5589723"   "5640063").PN. OR ("5786654").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/12 14:48
S61	12	("5225941"   "5587846"   "5589723"   "5589732"   "5786654"   "5821667"   "5869918"   "5890391"   "5907212"   "5912525"   "5969464").PN. OR ("6246151").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/12 14:48
S62	107249	driv\$3 adj (device or member or apparatus)	US-PGPUB; USPAT	OR	ON	2006/04/12 14:48
S63	49	S55 and S45 and S62 and S47	US-PGPUB; USPAT	OR	ON	2006/04/12 14:53
S64	10	S63 not S57	US-PGPUB; USPAT	OR	ON	2006/04/12 14:48

## EAST Search History

S65	528	S55 and S45 and S62	US-PGPUB; USPAT	OR	ON	2006/04/12 14:48
S66	1	"5633763".pn.	US-PGPUB; USPAT	OR	ON	2006/04/12 14:48
S67	1	"6232697".pn.	US-PGPUB; USPAT	OR	ON	2006/04/12 14:48
S68	7	("5130599"   "5134335"   "5225941"   "5589723"   "5726520").PN. OR ("6232697").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/12 14:48
S69	1	"6215605".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/12 14:48
S70	1	"5786654".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/12 14:48
S71	94276	piezo\$1electric\$1 or piezo adj electric or vibration adj wave	US-PGPUB; USPAT	OR	ON	2006/04/12 14:48
S72	90445	driv\$3 adj (device or member)	US-PGPUB; USPAT	OR	ON	2006/04/12 14:48
S73	311285	(compact adj disc or CD or digital adj video adj disc or DVD)	US-PGPUB; USPAT	OR	ON	2006/04/12 14:48
S74	356	S71 and S72 and S73	US-PGPUB; USPAT	OR	ON	2006/04/12 14:54
S75	1366	three near3 (driv\$3 near3 member)	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/12 14:48
S76	2	S71 and S72 and S73 and S75	US-PGPUB; USPAT	OR	ON	2006/04/12 14:48
S77	107249	driv\$3 adj (device or member or apparatus)	US-PGPUB; USPAT	OR	ON	2006/04/12 14:48
S78	356	S71 and S72 and S73 and S77	US-PGPUB; USPAT	OR	ON	2006/04/12 14:48
S79	3627	S71 and S72	US-PGPUB; USPAT	OR	ON	2006/04/12 14:48
S80	1859	S71 and S72 and (optical or lens)	US-PGPUB; USPAT	OR	ON	2006/04/12 14:48
S81	23	S71 and S72 and (optical or lens) and S75	US-PGPUB; USPAT	OR	ON	2006/04/12 14:48
S82	151	(driving near3 (device or apparatus)) same (driv\$3 near3 member) same (piezo\$1electric\$1 or piezo adj electric)	US-PGPUB; USPAT	OR	ON	2006/04/12 14:48
S83	1185	(driving near3 (device or apparatus)) and (driv\$3 near3 member) and (piezo\$1electric\$1 or piezo adj electric)	US-PGPUB; USPAT	OR	ON	2006/04/12 14:48

## EAST Search History

S84	511	(driving near3 (device or apparatus)) and (driv\$3 near3 member) same (piezo\$1electric\$1 or piezo adj electric)	US-PGPUB; USPAT	OR	ON	2006/04/12 14:54
S85	414	(driving near3 (device or apparatus)) same (driv\$3 near3 member) and (piezo\$1electric\$1 or piezo adj electric)	US-PGPUB; USPAT	OR	ON	2006/04/12 14:48
S86	197	310/323.02.ccls.	US-PGPUB; USPAT	OR	ON	2006/04/12 14:48
S87	2	((("6,232,697") or ("5,225,941"))).PN.	US-PGPUB; USPAT	OR	OFF	2006/04/12 14:48
S88	2011	310/328.ccls.	US-PGPUB; USPAT	OR	ON	2006/04/12 14:48
S89	312	(multiple or two or three or four) near3 (driv\$3 near3 member) and (piezo\$1electric\$1 or piezo adj electric)	US-PGPUB; USPAT	OR	ON	2006/04/12 15:39
S90	95842	piezo\$1electric\$1 or piezo adj electric	US-PGPUB; USPAT	OR	ON	2006/06/13 12:28
S91	92220	driv\$3 adj (device or member)	US-PGPUB; USPAT	OR	ON	2006/06/13 12:28
S92	323249	(compact adj disc or CD or digital adj video adj disc or DVD)	US-PGPUB; USPAT	OR	ON	2006/06/13 12:28
S93	3699	S90 and S91	US-PGPUB; USPAT	OR	ON	2006/06/13 12:28
S94	372	S90 and S91 and S92	US-PGPUB; USPAT	OR	ON	2006/06/13 12:28
S95	314	(multiple or two or three or four) near3 (driv\$3 near3 member) and (piezo\$1electric\$1 or piezo adj electric)	US-PGPUB; USPAT	OR	ON	2006/06/13 12:33
S96	11	S95 and S91 and S92	US-PGPUB; USPAT	OR	ON	2006/06/13 12:28
S97	36	S95 and S92	US-PGPUB; USPAT	OR	ON	2006/06/13 12:33
S98	25	S97 not S96	US-PGPUB; USPAT	OR	ON	2006/06/13 12:28
S100	118208	three near3 (driv\$3 member)	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/13 12:28
S101	3101	S100 and S90	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/13 12:28

## EAST Search History

S10 2	43	S100 and S90 and S91 and S92	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/13 12:28
S10 3	1385	three near3 (driv\$3 near3 member)	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/13 12:34
S10 4	50	S103 and S90	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/13 12:28
S10 7	109330	driv\$3 adj (device or member or apparatus)	US-PGPUB; USPAT	OR	ON	2006/06/13 12:28
S10 8	54	S100 and S90 and S107 and S92	US-PGPUB; USPAT	OR	ON	2006/06/13 12:36
S10 9	11	S108 not S102	US-PGPUB; USPAT	OR	ON	2006/06/13 12:28
S11 0	542	S100 and S90 and S107	US-PGPUB; USPAT	OR	ON	2006/06/13 12:28
S11 6	96465	piezo\$1electric\$1 or piezo adj electric or vibration adj wave	US-PGPUB; USPAT	OR	ON	2006/06/13 12:28
S11 7	92220	driv\$3 adj (device or member)	US-PGPUB; USPAT	OR	ON	2006/06/13 12:28
S11 8	323249	(compact adj disc or CD or digital adj video adj disc or DVD)	US-PGPUB; USPAT	OR	ON	2006/06/13 12:28
S11 9	374	S116 and S117 and S118	US-PGPUB; USPAT	OR	ON	2006/06/13 12:37
S12 0	1385	three near3 (driv\$3 near3 member)	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/13 12:28
S12 1	2	S116 and S117 and S118 and S120	US-PGPUB; USPAT	OR	ON	2006/06/13 12:28
S12 2	109330	driv\$3 adj (device or member or apparatus)	US-PGPUB; USPAT	OR	ON	2006/06/13 12:28
S12 3	374	S116 and S117 and S118 and S122	US-PGPUB; USPAT	OR	ON	2006/06/13 12:28
S12 4	3727	S116 and S117	US-PGPUB; USPAT	OR	ON	2006/06/13 12:28
S12 5	1915	S116 and S117 and (optical or lens)	US-PGPUB; USPAT	OR	ON	2006/06/13 12:28
S12 6	23	S116 and S117 and (optical or lens) and S120	US-PGPUB; USPAT	OR	ON	2006/06/13 12:28
S12 7	154	(driving near3 (device or apparatus)) same (driv\$3 near3 member) same (piezo\$1electric\$1 or piezo adj electric)	US-PGPUB; USPAT	OR	ON	2006/06/13 12:28

## EAST Search History

S12 8	1201	(driving near3 (device or apparatus)) and (driv\$3 near3 member) and (piezo\$1electric\$1 or piezo adj electric)	US-PGPUB; USPAT	OR	ON	2006/06/13 12:39
S12 9	519	(driving near3 (device or apparatus)) and (driv\$3 near3 member) same (piezo\$1electric\$1 or piezo adj electric)	US-PGPUB; USPAT	OR	ON	2006/06/13 12:43
S13 0	420	(driving near3 (device or apparatus)) same (driv\$3 near3 member) and (piezo\$1electric\$1 or piezo adj electric)	US-PGPUB; USPAT	OR	ON	2006/06/13 12:28
S13 1	199	310/323.02.ccls.	US-PGPUB; USPAT	OR	ON	2006/06/13 12:28
S13 2	2	((("6,232,697") or ("5,225,941"))).PN.	US-PGPUB; USPAT	OR	OFF	2006/06/13 12:28
S13 3	2047	310/328.ccls.	US-PGPUB; USPAT	OR	ON	2006/06/13 12:49
S18 2	266	310/323.01,323.03.ccls.	US-PGPUB; USPAT	OR	ON	2006/06/13 12:50
S18 3	290	310/323.01,323.03.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/13 12:57
S18 4	390	310/328,323.02.ccls.	USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/06/13 12:57
S18 7	50	((driving near3 (member portion)) with (driven near3 (member portion)) with (two three)).clm.	US-PGPUB	OR	ON	2006/06/13 13:16
S18 8	57	((driving near3 (member portion)) and (driven near3 (member portion))) with (two three)).clm.	US-PGPUB	OR	ON	2006/06/13 13:17
S18 9	7	S188 not S187	US-PGPUB	OR	ON	2006/06/13 13:16
S19 0	776	((driv\$3 near3 (member)) with (two three)).clm.	US-PGPUB	OR	ON	2006/06/13 13:18
S19 1	58	((driv\$3 near3 (member)) with (two three)).clm. and piezo\$	US-PGPUB	OR	ON	2006/06/13 13:18